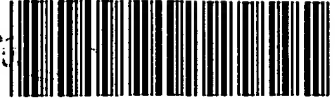


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/600

160

RAW SEQUENCE LISTING

DATE: 08/28/2003

PATENT APPLICATION: US/09/768,840A

TIME: 13:59:28

Input Set : A:\pf02612div_subseqlist.txt

Output Set: N:\CRF4\08282003\I768840A.raw

1 <110> APPLICANT: HILLMAN, Jennifer L.
 2 GOLI, Surya K.
 4 <120> TITLE OF INVENTION: CALCIUM-BINDING PROTEIN
 6 <130> FILE REFERENCE: PF-0261-2 DIV
 8 <140> CURRENT APPLICATION NUMBER: US 09/768,840A
 9 <141> CURRENT FILING DATE: 2001-01-23
 11 <150> PRIOR APPLICATION NUMBER: US 09/206,499
 12 <151> PRIOR FILING DATE: 1998-12-07
 14 <150> PRIOR APPLICATION NUMBER: US 08/828,242
 15 <151> PRIOR FILING DATE: 1997-03-31
 17 <160> NUMBER OF SEQ ID NOS: 6
 18 <170> SOFTWARE: PERL Program
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 328
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <220> FEATURE:
 26 <221> NAME/KEY: misc_feature
 27 <223> OTHER INFORMATION: Incyte ID No: 2509570CD1
 29 <400> SEQUENCE: 1
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 31 1 5 10 15
 32 His Gly Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly
 33 20 25 30
 34 Gln Gly Arg Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His
 35 35 40 45
 36 Asp Asp Ala His Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu
 37 50 55 60
 38 Gly Arg Glu Val Ala Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu
 39 65 70 75
 40 Ser Gln Ala Arg Leu Gly Arg Ile Val Asp Arg Met Asp Arg Ala
 41 80 85 90
 42 Gly Asp Gly Asp Gly Trp Val Ser Leu Ala Glu Leu Arg Ala Trp
 43 95 100 105
 44 Ile Ala His Thr Gln Gln Arg His Ile Arg Asp Ser Val Ser Ala
 45 110 115 120
 46 Ala Trp Asp Thr Tyr Asp Thr Asp Arg Asp Gly Arg Val Gly Trp
 47 125 130 135
 48 Glu Glu Leu Arg Asn Ala Thr Tyr Gly His Tyr Ala Pro Gly Glu
 49 140 145 150
 50 Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu
 51 155 160 165
 52 Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp

ENTERED

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Input Set : A:\pf02612div_subseqlist.txt

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53          170          175          180
54 Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu
55          185          190          195
56 Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu Glu
57          200          205          210
58 Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
59          215          220          225
60 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala
61          230          235          240
62 Trp Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu
63          245          250          255
64 Asn Lys Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val
65          260          265          270
66 Leu Pro Pro Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu
67          275          280          285
68 Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala
69          290          295          300
70 Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser Gln Ala Thr
71          305          310          315
72 Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu
73          320          325

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75 <210> SEQ ID NO: 2

76 <211> LENGTH: 1055

77 <212> TYPE: DNA

78 <213> ORGANISM: Homo sapiens

80 <220> FEATURE:

81 <221> NAME/KEY: misc_feature

82 <223> OTHER INFORMATION: Incyte ID No: 2509570CB1

84 <220> FEATURE:

85 <221> NAME/KEY: unsure

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87 <223> OTHER INFORMATION: a, t, c, g, or other

89 <400> SEQUENCE: 2

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92 ggccagggga ggggtgcacca ggcggccccc ctgagcgacg ctcccatga tgacgcccac 180
93 gggaacttcc agtacgacca tgaggcttcc ctgggacggg aagtggccaa ggaattcgac 240
94 caactcaccc cagaggaaaag ccaggcccgt ctggggcgga tcgtggaccg catggaccgc 300
95 gcgggggacg gcgacggctg ggtgtcgtg gccgagcttc gcgcgtggat cgcgcacacg 360
96 cagcagcggc acatacggga ctcggtgagc gcggcctggg acacgtacga cacggaccgc 420
97 gacgggcgtg tgggttgga ggagctgcgc aacgccacct atggccta cgcgcccggt 480
98 gaagaatttc atgacgtgga ggatgcagag acctacaaa agatgctggc tcgggacgag 540
99 cggcgcttcc ggggtggcca ccaggatggg gactcgatgg ccaactcgaga ggagctgaca 600
100 gccttctctg accccgagga gttccctcac atgcgggaca tcgtgattgc tgaaaccctg 660
101 gaggacctgg acagaaacaa agatggctat gtccaggtgg aggagtacat cgcggatctg 720
102 tactcagccg agcctgggga ggaggagccg gcgtgggtgc agacggagag gcagcagttc 780
103 cgggacttcc gggatctgaa caaggatggg cacctggatg ggagtgaggt gggccactgg 840
104 gtgctgcccc ctgccagga ccagccctg gtggaagcca accacctgct gcacgagagc 900
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RAW SEQUENCE LISTING

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TIME: 13:59:28

Input Set : A:\pf02612div_subseqlist.txt

Output Set: N:\CRF4\08282003\I768840A.raw

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106 gtgggagcgtc agggccaccaa ctatggcgag gacctgaccc ggcaccacga tgagctgtga 1020
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110 <211> LENGTH: 331
111 <212> TYPE: PRT
112 <213> ORGANISM: Homo sapiens
114 <220> FEATURE:
115 <221> NAME/KEY: misc_feature
116 <223> OTHER INFORMATION: GenBank ID No: g1262329
118 <400> SEQUENCE: 3
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121 Leu Leu Leu Ala Leu Val Leu Ala Pro Arg Val Leu Arg Ala Lys
122 20 25 30
123 Pro Thr Val Arg Lys Glu Arg Val Val Arg Pro Asp Ser Glu Leu
124 35 40 45
125 Gly Glu Arg Pro Pro Glu Asp Asn Gln Ser Phe Gln Tyr Asp His
126 50 55 60
127 Glu Ala Phe Leu Gly Lys Glu Asp Ser Lys Thr Phe Asp Gln Leu
128 65 70 75
129 Thr Pro Asp Glu Ser Lys Glu Arg Leu Gly Lys Ile Val Asp Arg
130 80 85 90
131 Ile Asp Asn Asp Gly Asp Gly Phe Val Thr Thr Glu Glu Leu Lys
132 95 100 105
133 Thr Trp Ile Lys Arg Val Gln Lys Arg Tyr Ile Phe Asp Asn Val
134 110 115 120
135 Ala Lys Val Trp Lys Asp Tyr Asp Arg Asp Lys Asp Asp Lys Ile
136 125 130 135
137 Ser Trp Glu Glu Tyr Lys Gln Ala Thr Tyr Gly Tyr Tyr Leu Gly
138 140 145 150
139 Asn Pro Ala Glu Phe His Asp Ser Ser Asp His His Thr Phe Lys
140 155 160 165
141 Lys Met Leu Pro Arg Asp Glu Arg Arg Phe Lys Ala Ala Asp Leu
142 170 175 180
143 Asn Gly Asp Leu Thr Ala Thr Arg Glu Glu Phe Thr Ala Phe Leu
144 185 190 195
145 His Pro Glu Glu Phe Glu His Met Lys Glu Ile Val Val Leu Glu
146 200 205 210
147 Thr Leu Glu Asp Ile Asp Lys Asn Gly Asp Gly Phe Val Asp Gln
148 215 220 225
149 Asp Glu Tyr Ile Ala Asp Met Phe Ser His Glu Glu Asn Gly Pro
150 230 235 240
151 Glu Pro Asp Trp Val Leu Ser Glu Arg Glu Gln Phe Asn Glu Phe
152 245 250 255
153 Arg Asp Leu Asn Lys Asp Gly Lys Leu Asp Lys Asp Glu Ile Arg
154 260 265 270
155 His Trp Ile Leu Pro Gln Asp Tyr Asp His Ala Gln Ala Glu Ala
156 275 280 285
157 Arg His Leu Val Tyr Glu Ser Asp Lys Asn Lys Asp Glu Lys Leu

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RAW SEQUENCE LISTING

DATE: 08/28/2003

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TIME: 13:59:28

Input Set : A:\pf02612div_subseqlist.txt

Output Set: N:\CRF4\08282003\I768840A.raw

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158                               290                               295                               300
159 Thr Lys Glu Glu Ile Leu Glu Asn Trp Asn Met Phe Val Gly Ser
160                               305                               310                               315
161 Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Lys Asn His Asp Glu
162                               320                               325                               330
163 Leu
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 325
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <220> FEATURE:
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173 <223> OTHER INFORMATION: GenBank ID No: g220582
175 <400> SEQUENCE: 4
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178 Ala Leu Val Leu Ala Leu Arg Ala Lys Pro Thr Val Arg Lys Glu
179 20 25 30
180 Arg Val Val Arg Pro Asp Ser Glu Leu Gly Glu Arg Pro Pro Glu
181 35 40 45
182 Asp Asn Gln Ser Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Lys
183 50 55 60
184 Glu Asp Ser Lys Thr Phe Asp Gln Leu Ser Pro Asp Glu Ser Lys
185 65 70 75
186 Glu Arg Leu Gly Lys Ile Val Asp Arg Ile Asp Ser Asp Gly Asp
187 80 85 90
188 Gly Leu Val Thr Thr Glu Glu Leu Lys Leu Trp Ile Lys Arg Val
189 95 100 105
190 Gln Lys Arg Tyr Ile Tyr Asp Asn Val Ala Lys Val Trp Lys Asp
191 110 115 120
192 Tyr Asp Arg Asp Lys Asp Glu Lys Ile Ser Trp Glu Glu Tyr Lys
193 125 130 135
194 Gln Ala Thr Tyr Gly Tyr Tyr Leu Gly Asn Pro Ala Glu Phe His
195 140 145 150
196 Asp Ser Ser Asp His His Thr Phe Lys Lys Met Leu Pro Arg Asp
197 155 160 165
198 Glu Arg Arg Phe Lys Ala Ser Asp Leu Asp Gly Asp Leu Thr Ala
199 170 175 180
200 Thr Arg Glu Glu Phe Thr Ala Phe Leu His Pro Glu Glu Phe Glu
201 185 190 195
202 His Met Lys Glu Ile Val Val Leu Glu Thr Leu Glu Asp Ile Asp
203 200 205 210
204 Lys Asn Gly Asp Gly Phe Val Asp Gln Asp Glu Tyr Ile Ala Asp
205 215 220 225
206 Met Phe Ser His Glu Asp Asn Gly Pro Glu Pro Asp Trp Val Leu
207 230 235 240
208 Ser Glu Arg Glu Gln Phe Asn Asp Phe Arg Asp Leu Asn Lys Asp
209 245 250 255
210 Gly Lys Leu Asp Lys Asp Glu Ile Arg His Trp Ile Leu Pro Gln

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RAW SEQUENCE LISTING

DATE: 08/28/2003

PATENT APPLICATION: US/09/768,840A

TIME: 13:59:28

Input Set : A:\pf02612div_subseqlist.txt

Output Set: N:\CRF4\08282003\I768840A.raw

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211                260                265                270
212 Asp Tyr Asp His Ala Gln Ala Glu Ala Arg His Leu Val Tyr Glu
213                275                280                285
214 Ser Asp Lys Asn Lys Asp Glu Met Leu Thr Lys Glu Glu Ile Leu
215                290                295                300
216 Asp Asn Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly
217                305                310                315
218 Glu Asp Leu Thr Lys Asn His Asp Glu Leu
219                320                325
221 <210> SEQ ID NO: 5
222 <211> LENGTH: 4
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens
226 <220> FEATURE:
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228 <223> OTHER INFORMATION: Incyte ID No: FRAG1
230 <400> SEQUENCE: 5
231 Lys Asp Glu Leu
232 1
234 <210> SEQ ID NO: 6
235 <211> LENGTH: 4
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
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241 <223> OTHER INFORMATION: Incyte ID No: FRAG2
243 <400> SEQUENCE: 6
244 His Asp Glu Leu
245 1

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/28/2003
PATENT APPLICATION: US/09/768,840A TIME: 13:59:29

Input Set : A:\pf02612div_subseqlist.txt
Output Set: N:\CRF4\08282003\I768840A.raw

ease Note:

e of n and/or Xaa have been detected in the Sequence Listing. Please review the
quence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

q#:2; N Pos. 11,13,15,19